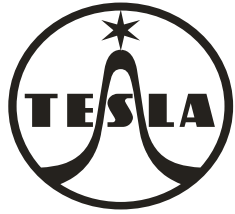


TESLA Blatna a.s.

INSEM

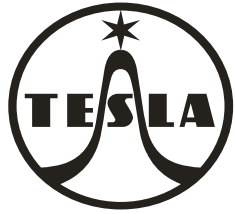
Integrated Sensor Modules:

Building Blocks and
Selective Films Deposition

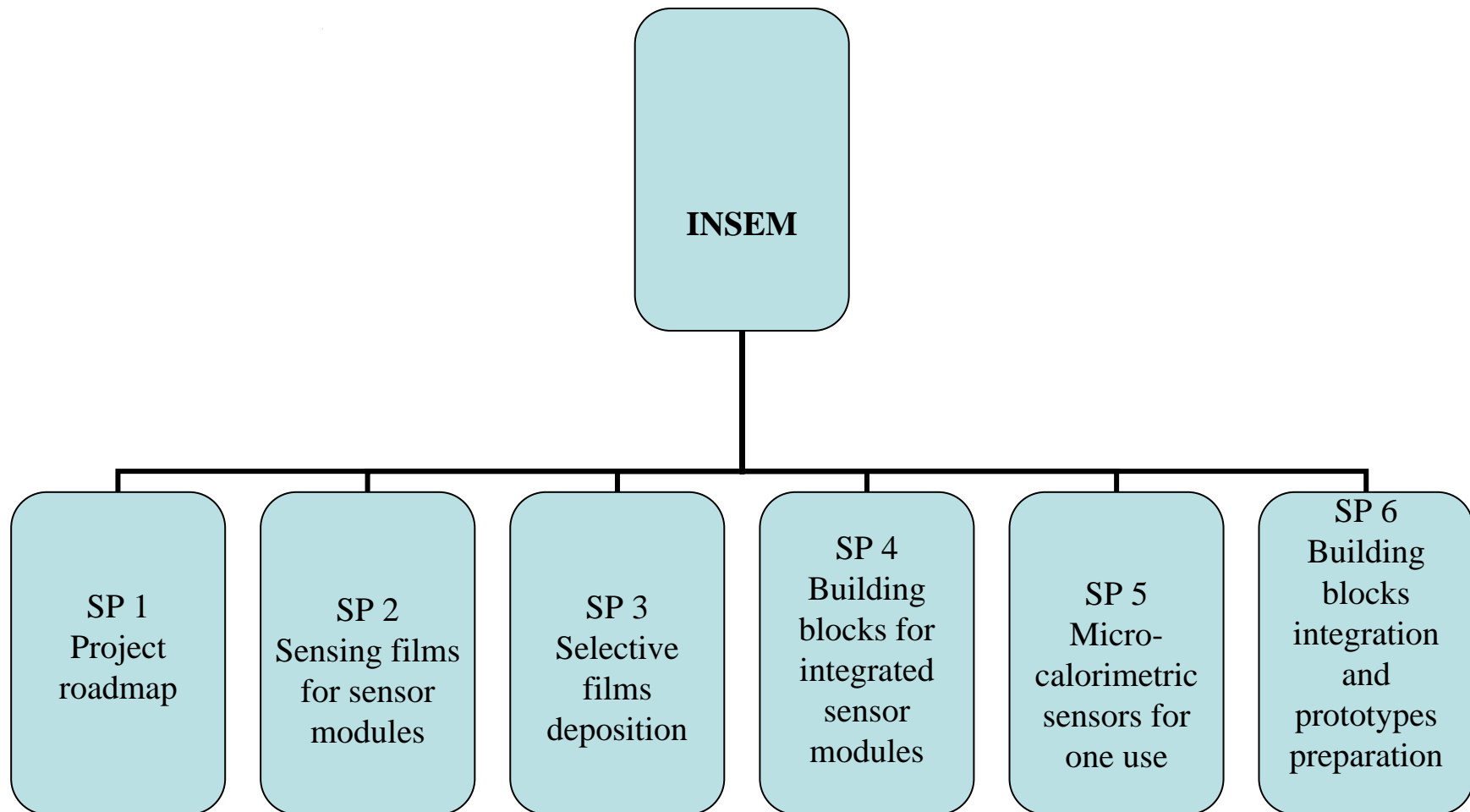


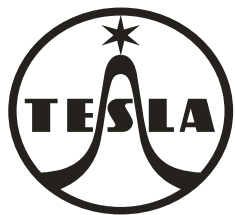
Project ideas

- Demand for tailor made sensor modules that can be integrated into textile products.
- Low cost modules showing distributed intelligence, wireless communication.
- Building blocks system and flexible technology.
- Nano- and micro-films integration on one substrate.
- Integration of signals evaluation together with sensing elements.
- Integration of “dry” and “wet” deposition processes.



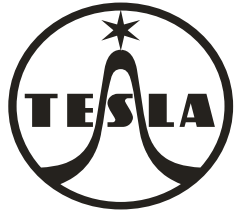
Subprojects





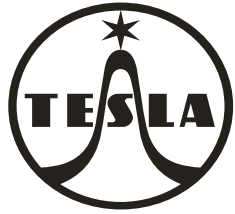
Work packages

No.	Subproject	Duration [Months]	Work package	Short Description
1	Project roadmap	9	WP 1.1 WP 1.2 WP 1.3	Benchmark products Choice of species to detect First application experiments
2	Sensing films for sensor modules	33	WP 2.1 WP 2.2 WP 2.3	Inorganic films Organic films Composite films
3	Selective films deposition	36	WP 3.1 WP 3.2 WP 3.3	Screen printed films Films deposited on masked substrates Deposition techniques

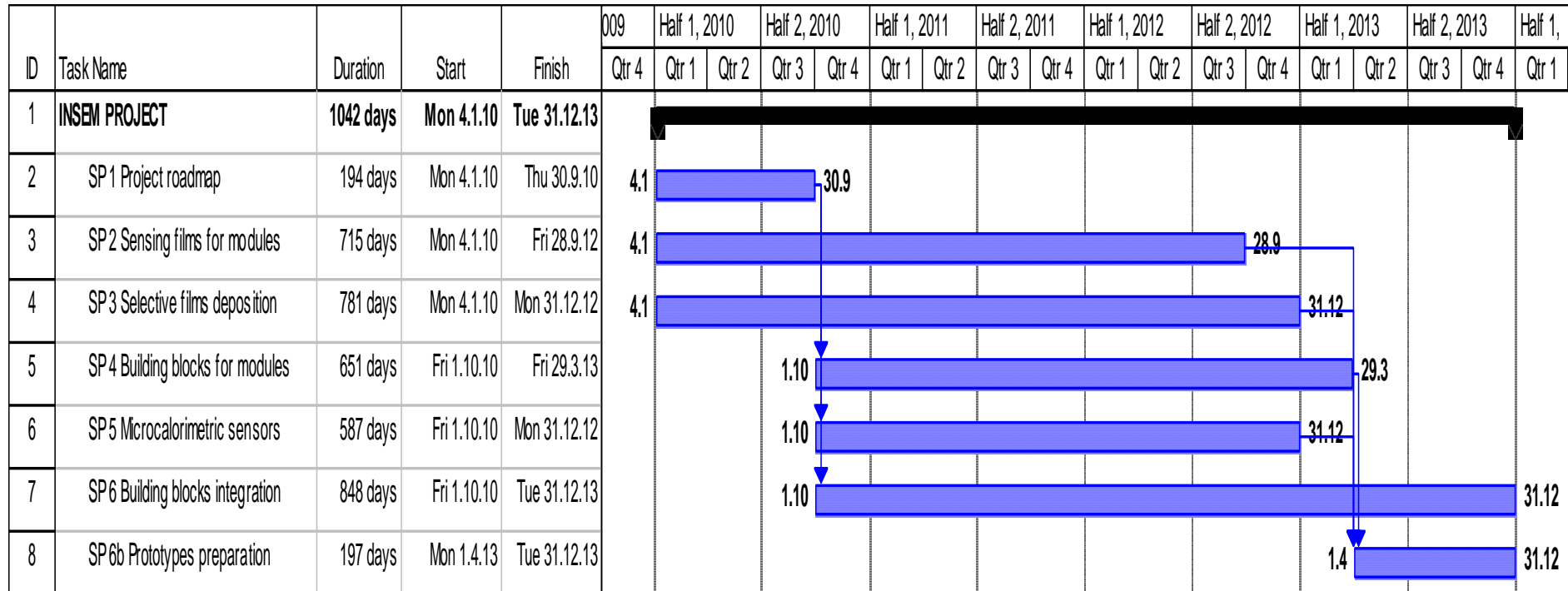


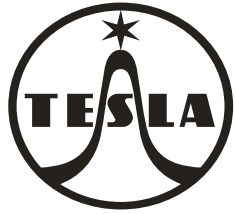
Work packages

No.	Subproject	Duration [Months]	Work package	Short Description
4	Building blocks for integrated sensor modules	30	WP 4.1 WP 4.2 WP 4.3 WP 4.4	Sensing elements Auxiliary sensing blocks Heating elements Electronic circuits
5	Micro-calorimetric sensors for one use	27	WP 5.1 WP 5.2	Chemical sensors Biological sensors
6	Building blocks integration	39	WP 6.1 WP 6.2 WP 6.3	Sensor arrays Integrated sensor modules Prototypes fabrication



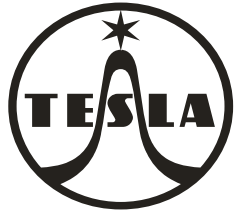
Project Time Schedule





Czech development team

- TESLA Blatna - project coordinator, producer.
- Institute of Macromolecular Chemistry in Prague.
- Czech technical universities:
 - Technical University in Prague
 - West Bohemian University in Pilsen
 - Technical University in Liberec.



Conclusions

- Czech development team has started preparation of the new EURIPIDES project.
- Basic characteristics of the project has been presented.
- We look for partners in EU.
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